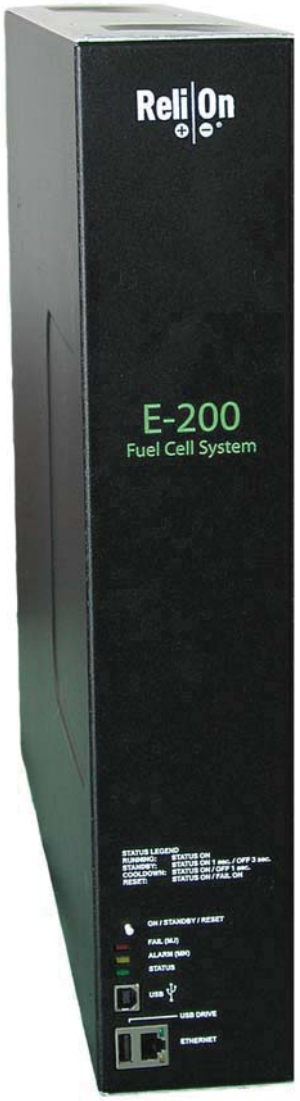
E-200 Hydrogen Fuel Cell

Features

- Modular, compact, economical
- Scalable for higher capacity applications
- Self diagnostics for optimal performance
- Multiple bus / Multiple voltage site solutions
- Indoor shelter 19" or 23" rack mount and outdoor cabinetized configurations
- Vertical or horizonal mounting options available



ReliOn®

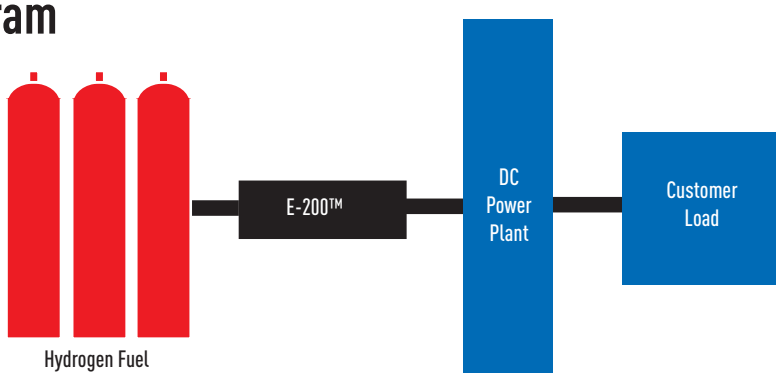
The E-200™ hydrogen fuel cell - clean, highly reliable power wrapped in a compact, economical package. Designed specifically for small-scale backup power applications within the railroad, telecommunications, transportation, security and government sectors, the E-200™ fuel cell system provides DC power for equipment needing up to 200 Watts in a 2U rack-mount chassis. The E-200™ is fueled by hydrogen and can affordably provide hundreds of hours of highly reliable runtime between refuelings for critical equipment. Because the only emissions are warm air and a small amount of water, the E-200™ is exempt from the most stringent air quality standards and is a valuable component of corporate sustainability efforts.

Fuel Cells

Simply Powerful

Specifications

Functional Diagram



The E-200™ fuel cell system is well suited for a variety of applications:

Railroad Signaling & Communications / PTC
Wireless backhaul/T1/Fiber
Fiber fed DAS
Remote radio head units
Micro/Pico cell sites
Wireless broadband/WiMax
3G and 4G wireless
Microwave communications
Radio/Repeater sites
Flight guidance ILS
Surveillance / Security systems
FTTx / Broadband Access
Broadband DLC
Traffic signaling

Product Specifications

Physical	Dimensions (w x d x h)	17.25" x 18.75" x 3.4" / 43.8 cm x 47.63 cm x 8.64 cm
	Weight	16.5 lbs / 7.5 kg
	Mounting	19" or 23" rack mount
Performance	Maximum power	200W
	Rated current	17.5A @ 12V / 8.7A @ 24V / 5.5A @ 36V / 4.2A @ 48V
	DC voltage	12 / 24 / 36 / 48 V nominal, user-selectable
Fuel	Composition	Standard industrial grade hydrogen (99.95%)
	Supply pressure to unit	8 to 12 psig / 55.1 to 82.8 KPag / 0.55 bar to 0.83 bar
	Consumption	3 slpm @ rated power
	Hydrogen Storage Capacity	n/a (modular storage solutions available from 2.5kWh to 300kWh)
Operation	Ambient temperature	22^0F to 122^0F / -5^0C to 50^0C Optional -40^0C to 50^0C in hardened outdoor cabinet
	Relative humidity	0-95% non-condensing
	Altitude	-197 ft to 13,800 ft / -60m to 4,206m
	Location	Indoors or hardened outdoor cabinet
Emissions	Water	Max 7mL / 200W (primarily vapor)
	Noise	54dBA @ 3.23 ft / 1m
Monitoring / Control	Remote	System configuration & status / Historical & operational data
	Communications	Standard: USB / Dry contact / Ethernet / SNMP / Web interface Optional: Wireless modem - CDMA / GSM / Ethernet switch

© 2013 ReliOn, Inc. All rights reserved.
Protected by U.S. Patent Nos. 6,030,718; 6,096,449; 6,218,035; 6,387,556; 6,468,682; 6,773,839 and others. Product specifications are subject to change at any time.

Corporate Headquarters:
15913 E. Euclid Avenue
Spokane, WA 99216
Phone: 1-509-228-6500
Toll Free: (U.S.) 1-877-474-1993
Fax: 1-509-228-6510
fuel.cells@relion-inc.com

ReliOn®
FUEL CELLS
SIMPLY POWERFUL